

ABSTRACT OF THE INVENTION**STEREOSCOPIC X-RAY IMAGING APPARATUS FOR OBTAINING
THREE-DIMENSIONAL COORDINATES**

A screening device ~~(1)~~ for use in scanning objects for security checking or medical observation includes an X-ray source ~~(4)~~ providing two beams ~~(6, 8)~~ for projection at the object, a linear sensor array ~~(10, 12)~~ being provided for each beam whereby an intensity map and a motion map is generated to provide a data set from which a 3D image can be generated and viewed.